

September 28, 2006

OTC Industrial/Commercial/Institutional (ICI) Boiler Control Strategy Proposal

ICI Boiler Size (mmBtu/hr)	Control Strategy/ Compliance Option	NO _x Control Measure	SO ₂ Control Measure	Notes
Less than 25	OTC Proposal	Annual Boiler Tune-Up (OTC-10% Reduction from 2009)	#2 fuel oil - 0.05% S by wt. by 2012 #4 fuel oil - 0.25% S by wt. by 2012	For 5-25 mm Btu/hr Annual Boiler Tune-Up #2 fuel oil same as On-road low sulfur diesel oil
25-100	OTC Proposal Strategy #1 (Choice of strategy is at the discretion of the source)	Natural Gas 0.05 lb NO _x /mmBtu	#2 fuel oil - 0.05% S by wt. by 2012 #4 fuel oil - 0.25% S by wt. by 2012 #6 fuel oil - 0.50% S by wt. by 2012	For 25-50 mmBtu/hr Initial stack test then Annual Boiler Tune-Up
		#2 Fuel Oil 0.08 lb NO _x /mmBtu		For 50-100 mmBtu/hr Initial NO _x stack test then once every 5 years and Annual Boiler Tune-Up
		#4 or #6 Fuel Oil 0.20 lb NO _x /mmBtu		
		Coal 0.30 lb NO _x /mmBtu**		
	OTC Proposal Strategy #2 (Choice of strategy is at the discretion of the source)	50% Reduction from uncontrolled (OTC: for 25-50 mm Btu/hr 50% Reduction from 2009, for 50- 100 mm Btu/hr 10% Reduction from 2009)		
	OTC Proposal Strategy #3 (Choice of strategy is at the discretion of the source)	Purchase Current year CAIR NO _x Allowances		#2 fuel oil same as On-road low sulfur diesel oil

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100-250	OTC Proposal Strategy #1 (Choice of strategy is at the discretion of the source)	Natural Gas 0.10 lb NOx/mmBtu	#2 fuel oil - 0.05% S by wt. by 2012 #4 fuel oil - 0.25% S by wt. by 2012 #6 fuel oil - 0.50% S by wt. by 2012	Initial NOx stack test then once every 5 years and Annual Boiler Tune-Up #2 fuel oil same as On-road low sulfur diesel oil
		#2, #4, or #6 Fuel Oil 0.20 lb NOx/mmBtu		
		Natural Gas & Fuel Oil Combined 0.20 lb NOx/mmBtu		
		Coal Wall-fired 0.14 lb NOx/mm Btu Tangential 0.12 lb NOx/mm Btu Stoker 0.22 lb NOx/mm Btu FBC 0.08 lb NOx/mm Btu		
	Strategy #2	LNB/SNCR*, LNB/FGR*, SNCR, SCR, or some combination of these controls		
	Strategy #3	60% Reduction from uncontrolled (OTC-Nat gas 75%, Oil 40%, Coal 25% Reduction from 2009)		
	Strategy #4	Purchase Current year CAIR NOx Allowances		
ICI Boiler Size (mmBtu/hr)	Control Strategy/ Compliance Option	NOx Control Measure	SO ₂ Control Measure	Notes
Greater than 250	OTC Proposal Strategy #1 (Choice of strategy is at the discretion of the source)	Include in NOx SIP Call or purchase Current year CAIR NOx allowances	Purchase Current year CAIR SO ₂ allowances	NY- currently includes these in the NOx SIP Call trading program NOx CEMs
	OTC Proposal Strategy #2 (Choice of strategy is at the discretion of the source)	Phase I – 2009 0.12 NOx lb/mmBtu (OTC-20% Reduction from 2009 if NOx SIP call and 30% Reduction if not NOx SIP call)	Phase I – 2009 0.35 lb SO ₂ /mmBtu	Equivalent to proposed EGU Control Measures
		Phase II – 2013 0.08 NOx lb/mmBtu	Phase II – 2013 0.25 lb SO ₂ /mmBtu	NOx CEMS

*LNB/SNCR and LNB/FGR are examples of NOx control technologies for achieving NOx reductions.

**Emission rate from March 6, 2001 OTC Model Rule.